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RMS

MAC

MAC

[201.10] RMSIDXLNK. R32

Define subroutine linkage

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FACILITY:

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RMS32 INDEX SEQUENTIAL FILE ORGANIZATION

ABSTRACT:

This module defines all the routine linkage

**ENVIRONMENT:** 

VAX/VMS OPERATING SYSTEM

AUTHOR: D. H. Gillespie CREATION DATE: 17-MAR-1978

and W. Koenig

MODIFIED BY:

V03-024 RAS0154 Ron Schaefer 2-May-1983 Add NOPRESERVE (R2) to L\_EXTENDO linkage.

V03-023 MCN0020 Maria del C. Nasr 07-Apr-1983 Eliminage linkages of RM\$NULLKEY, and RM\$COMPRESS\_KEY. They will be using general linkages. Modify L\_ACLOC3, and L\_EXTENDO to use parameters instead of global registers.

V03-022 MCN0019

Maria del C. Nasr

05-Apr-1983

Preserve all registers except RO and R1 in linkage FABREG. RM\$XSUMO requires a separate linkage because it cannot preserve R4.

V03-021 TMK0001 Todd M. Katz Add the linkage RABREG\_4.

26-Mar-1983

V03-020 MCN0018 Maria del C. Nasr 24-Mar-1983
Define new general linkages. Also, since the linkages have changed so much, eliminate all history comments.

MACRO

```
R
```

```
This module defines all the routine linkage for RMS-32 index file
 organization.
 KEEP THESE DEFINITIONS IN ALPHABETICAL ORDER PLEASE
 The following conventions will be used for linkage macros:
            MACRO L_NAME = RL$NAME =
                       JSB (REGISTERS) :
                       GLOBAL (REGISTER DEFINITIONS) %:
           The register definitions are macros of the forms COMMON FABREG, COMMON RABREG, COMMON IOREG, etc. or R_REGNAME as described in RMSIDXMAC.R32
L_ALDBUF =
            RL$ALDBUF =
            JSB (REGISTER = 5) :
           GLOBAL (R IMPURE, R IFAB)
NOPRESERVE (2.3.4)
NOTUSED (8,9) %,
L_ALLOC3 =
           RL$ALLOC3 =
            JSB (REGISTER = 7; REGISTER = 1, REGISTER = 2) :
            GLOBAL (R_IFAB) %,
L_BDBALLOC =
            RL$BDBALLOC =
            JSB (REGISTER = 4, REGISTER = 5) :
           GLOBAL (COMMON RABREG)
NOPRESERVE (2,3,4,5,6) %,
L_CACHE =
           RL$CACHE =
            JSB (REGISTER = 1, REGISTER = 2, REGISTER = 3) :
           GLOBAL (COMMON TOREG)
NOPRESERVE (1,2,3)
NOTUSED (8,9,10,11) %,
L_CHECK_SEGMENT =

RL$CHECK_SEGMENT =

JS9 (REGISTER = 0, REGISTER = 4, REGISTER = 2) :

GLOBAL (R_IDX_DFN)

NOPRESERVE (2,4.5)
L_CHKSUM =
            RL$CHKSUM =
            JSB (REGISTER = 5) :
```

NOPRESERVE (0,1,2) %.

```
16-SEP-1984 17:01:56.72 Page 4
RMSIDXLNK.R32:1
         L_COMPARE KEY =

RC$COMPARE KEY =

JSB (REGISTER = 1, REGISTER = 3, REGISTER = 0) :

GLOBAL (R_IDX_DFN)

NOPRESERVE (3) %,
         L_ERROR_LINK1 = RLSERROR_LINK1 =
                     JSB () :
                     GLOBAL (COMMON_RABREG)
                     PRESERVE (0) %,
         L_ERROR_LINK2 = RL$ERROR_LINK2 =
                     JSB () :
                    G_OBAL (COMMON_RABREG, R_IDX_DFN)
PRESERVE (0) %,
          L_EXTENDO =
                     RLSEXTENDO =
                     JSB (REGISTER = 5, REGISTER = 6; REGISTER = 1, REGISTER = 6):
GLOBAL (COMMON_FABREG)
                     NOPRESERVE (2,3,4,5) %.
          L_FABREG =
                     RL$FABREG =
                     JSB () :
                     GLOBAL (COMMON_FABREG)
                     NOPRESERVE (0.T) %.
         L_FABREG_7 = RLSFABREG_7 =
                     JSB () :
                     GLOBAL (COMMON_FABREG, R_IDX_DFN) %,
          L_GETSPC =
                     RL$GETSPC =
                     JSB (REGISTER = 1, REGISTER = 2; REGISTER = 1) :
                    GLOBAL (R IMPURE)
NOPRESERVE (2,3,4)
NOTUSED (8,9,10) %,
          L_JSB =
                     RL$JSB =
                     JSB () %.
          L_JSB01 =
                     RL$JSB01 =
                    JSB (REGISTER = 0, REGISTER = 1):
GLOBAL (R_BKT_ADDR, R_REC_ADDR, R_IDX_DFN, R_IRAB, R_IFAB)
NOPRESERVE (0,1) %,
          L_LINK_7_10_11 =
RL$CINK_7_10_11 =
JSB ():
                     GLOBAL (R_IDX_DFN, R_IFAB, R_IMPURE)
```

MAC

RM

MA

```
NOPRESERVE (0,1) %.
```

L\_PRESERVE1 =

RL\$PRESERVE1 =

JSB ():

GLOBAL (COMMON\_RABREG, R\_BDB, R\_REC\_ADDR, R\_IDX\_DFN)

PRESERVE (1) %,

L\_QUERY\_AND\_LOCK =

RL\$QUERY\_AND\_LOCK =

JSB (REGISTER = 1, REGISTER = 2) :

GLOBAL (COMMON\_RABREG)

NOPRESERVE (3) %,

L\_RABREG =

RL\$RABREG =

JSB ():

GLOBAL (COMMON\_RABREG)

NOPRESERVE (0,T) %,

L\_RABREG\_4 =
RL\$RABREG\_4 =
JSB ():
GLOBAL (COMMON\_RABREG, R\_BDB)
NOPRESERVE (0,T) %,

L\_RABREG\_4567 =
RL\$RABREG\_4567 =
JSB ():
GLOBAL (COMMON\_RABREG, COMMON\_IOREG, R\_REC\_ADDR, R\_IDX\_DFN)
NOPRESERVE (0,1) %,

L\_RABREG\_457 =
RL\$RABREG\_457 =
JSB ():
GLOBAL (COMMON\_RABREG, COMMON\_IOREG, R\_IDX\_DFN)
NOPRESERVE (0,T) %,

L\_RABREG\_467 =
RL\$RABREG\_467 =
JSB ():
GLOBAL (COMMON\_RABREG, R\_BDB, R\_REC\_ADDR, R\_IDX\_DFN)
NOPRESERVE (0,T) %,

L\_RABREG\_567 =
RL\$RABREG\_567 =
JSB ():
GLOBAL (COMMON\_RABREG, R\_BKT\_ADDR, R\_REC\_ADDR, R\_IDX\_DFN)
NOPRESERVE (0,T) %,

L\_RABREG\_67 =
RL\$RABREG\_67 =
JSB ():
GLOBAL (COMMON\_RABREG, R\_REC\_ADDR, R\_IDX\_DFN)
NOPRESERVE (0,T) %,

\*\*

```
L_RABREG_7 = RL$RABREG_7 =
              JSB ():
GLOBAL (COMMON_RABREG, R_IDX_DFN)
NOPRESERVE (0,T) %,
L_REC_OVHD =
              RLSREC_OVHD =

JSB (REGISTER = 1; REGISTER = 1):
GLOBAL (R_REC_ADDR, R_IDX_DFN, R_IFAB) %,
L_RELEASE =
              RLSRELEASE =
             JSB (REGISTER = 3):
GLOBAL (R_BDB, R_IRAB, R_IFAB, R_IMPURE)
NOPRESERVE (1,2)
NOTUSED (8) %,
L_RELEASE_FAB =

RC$RELEASE_FAB =

JSB (REGISTER = 3):

GLOBAL (R_BDB, R_IFAB, R_IFAB_FILE, R_IMPURE)

NOPRESERVE (1,2)

NOTUSED(8) %,
L_RETSPC =
              RL$RETSPC =
             JSB (REGISTER= 2, REGISTER = 3, REGISTER = 4):
GLOBAL (R_IMPURE)
NOPRESERVE (2,3,5)
NOTUSED (8,9,10) %,
L_SIDR_FIRST =
              RL$SIDR_FIRST =
              JSB (STANDARD; REGISTER = 1, REGISTER = 2):
GLOBAL (R_REC_ADDR, R_IDX_DFN, COMMON_RABREG) %,
L_XSUMO =
              RL$XSUMO =
              JSB () :
              GLOBAL (COMMON_FABREG)
```

NOPRESERVE (0,T,4) %;

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178